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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/049,157	02/01/2002	Michael Franklin Glass	02004.056	8262
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Christopher J Fildes Fildes & Outland Grosse Pointe Woods Suite 2			EXAMINER	
			ROSENBERG, LAURA B	
20916 Mack Avenue Michigan, MI 48236			ART UNIT	PAPER NUMBER
			3616	<u>-</u>
			DATE MAILED: 05/22/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	pplicant(s)				
	10/049,157	GLASS, MICHAEL FRANKLIN				
Office Action Summary	Examiner	Art Unit				
	Laura B Rosenberg	3616				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL	Y'IS SET TO EXPIR	E 3 MONTH(S) FROM				
THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a report of the period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by stature to the period by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	. 136(a). In no event, however ply within the statutory minimud will apply and will expire SIX to cause the application to be	may a reply be timely filed m of thirty (30) days will be considered timely. (6) MONTHS from the mailing date of this communication. come ABANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
, 24,	his action is non-fina	•				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	, , , , , , , , , , , , , , , , , , ,					
4) \boxtimes Claim(s) <u>1-9</u> is/are pending in the application						
4a) Of the above claim(s) is/are withdr	awn from considerati	on.				
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-5 and 9</u> is/are rejected.	6)⊠ Claim(s) <u>1-5 and 9</u> is/are rejected.					
7)⊠ Claim(s) <u>6-8</u> is/are objected to.		•				
8) Claim(s) are subject to restriction and	or election requireme	ent.				
Application Papers	or.					
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on <u>01 February 2002</u> is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No.						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International I * See the attached detailed Office action for a li	st of the certified cop	ies not received.				
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language r 15)☐ Acknowledgment is made of a claim for dome	provisional application estic priority under 35	n has been received. U.S.C. §§ 120 and/or 121.				
Attachment(s)		•				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s	5) 🔲 🗅	nterview Summary (PTO-413) Paper No(s) Notice of Informal Patent Application (PTO-152) Other:				

Page 2

Application/Control Number: 10/049,157

Art Unit: 3616

DETAILED ACTION

Drawings

- 1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the embodiment of claim 5 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.
- 2. Figures 1-5 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g).

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Specification

3. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

Application/Control Number: 10/049,157 Page 3

Art Unit: 3616

4. The abstract of the disclosure is objected to because legal phraseology is used in lines 3 and 4 and there is a grammatical error in the phrase "vehicle wheel st comprising" in line 1. Correction is required. See MPEP § 608.01(b).

5. The disclosure is objected to because of the following informalities: the different sections of the specification (summary of the invention, brief description of the drawings, etc.) are not clearly pointed out. Labeling each section with a title makes it easier to navigate through the specification. Appropriate correction is required.

Claim Objections

6. Claims 6-8 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim cannot depend from any other multiple dependent claim. See MPEP § 608.01(n). Accordingly, the claims have not been further treated on the merits.

Claim Rejections - 35 USC § 112

- 7. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 8. Claim 5 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Application/Control Number: 10/049,157

Art Unit: 3616

Specifically, claim 5 describes an embodiment of the auxiliary spring means that is not supported by the drawings or the specification.

Page 4

9. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 10. Claim 3 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 3 recites the limitation "its rate" in line 7. There is insufficient antecedent basis for this limitation in the claim.
- 11. Claim 9 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite in that it fails to point out what is included or excluded by the claim language. This claim is an omnibus type claim.

Claim Rejections - 35 USC § 102

12. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Page 5

Application/Control Number: 10/049,157

Art Unit: 3616

13. Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by Hedenberg et al. (5,351,986). In regards to claims 1 and 3, Hedenberg et al. disclose a suspension system for a vehicle wheel set (#14; column 5, lines 34-40) comprising an upper leaf spring (#40) and a lower leaf spring (#38), each being mounted on opposed sides of an associated vehicle generally transversely of the associated vehicle axle (#15). One end (near #44) of each upper and lower leaf spring comprises connection means (#25, 27, 44) for attachment to an associated vehicle chassis (#19) and auxiliary spring means (#33) are mounted in series with the upper leaf spring (column 4, lines 8-11) and arranged to alter the spring rate in proportion to the imposed load at constant ride height (column 4, lines 30-42). Though not specifically pointed out, the springs are arranged such that they can provide the associated vehicle with ride characteristics and dynamic deflection geometry substantially the same as those of a conventional solo leaf spring system.

In regards to claim 2, Hedenberg et al. disclose the auxiliary spring means being mounted at an end (near #46) distant from the associated connection means (near #44) of the upper leaf spring (best seen in figures 2, 3).

In regards to claim 4, Hedenberg et al. disclose the auxiliary spring means comprising an air spring (#33; column 2, line 51).

14. Claims 1-3 and 5 are rejected under 35 U.S.C. 102(b) as being anticipated by Orndorff, Jr. et al. (5,007,660). In regards to claims 1 and 3, Orndorff, Jr. et al. disclose a suspension system for a vehicle wheel set (#5) comprising an upper leaf spring (upper

Application/Control Number: 10/049,157 Page 6

Art Unit: 3616

leaf of #8) and a lower leaf spring lower leaf of #8), each being mounted on opposed sides of an associated vehicle generally transversely of the associated vehicle axle (#6). One end (near #10) of each upper and lower leaf spring comprises connection means (#10) for attachment to an associated vehicle chassis (#4) and auxiliary spring means (#28, 60) are mounted in series with the upper leaf spring (column 1, lines 30-37; column 3, lines 41-46) and arranged to alter the spring rate in proportion to the imposed load at constant ride height (column 1, lines 30-46). Though not specifically pointed out, the springs are arranged such that they can provide the associated vehicle with ride characteristics and dynamic deflection geometry substantially the same as those of a conventional solo leaf spring system.

In regards to claim 2, Orndorff, Jr. et al. disclose the auxiliary spring means being mounted at an end (near #28) distant from the associated connection means (near #10) of the upper leaf spring (best seen in figure 1).

In regards to claim 5, Orndorff, Jr. et al. disclose the auxiliary sprig means comprising manual mechanical spring means (#28, 60; best seen in figures 2, 6).

Conclusion

15. The prior art made of record and not relied upon discloses leaf spring suspension systems and is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura B Rosenberg whose telephone number is (703)

Application/Control Number: 10/049,157

Art Unit: 3616

305-3135. The examiner can normally be reached on Monday-Thursday, alternating Fridays 7:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Dickson can be reached at (703) 308-2089. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9326 for regular communications and (703) 872-9327 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1113.

Laura B. Roy

May 19, 2003

PAUL N. DICKSON

Page 7

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3600